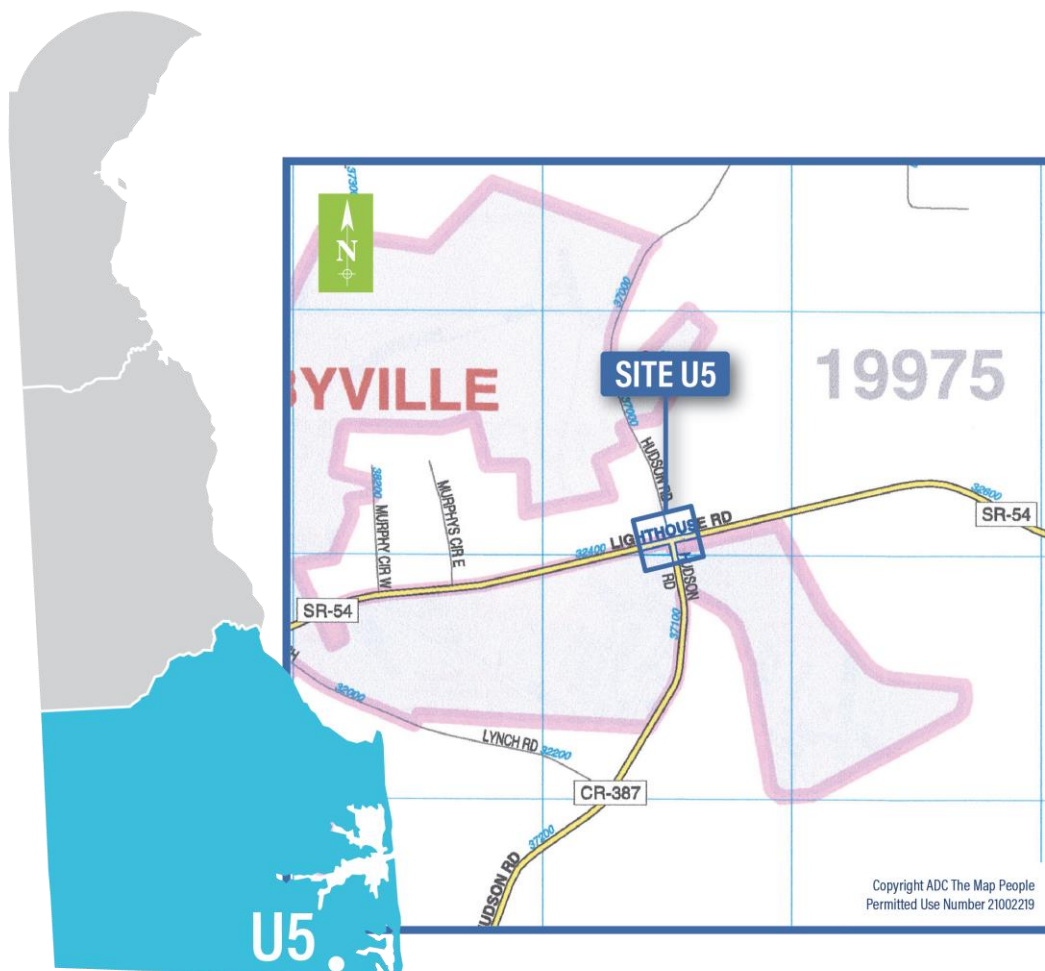


Sussex County

2019
Hazard
Elimination
Program
TASK I



SITE U-5: SR 54 (Lighthouse Road) at Hudson Road



Location

Selbyville, DE

Rank

177

AADT

SR 54: 3,515

Hudson Road: 2,700

Posted Speed Limit

SR 54: 50 MPH

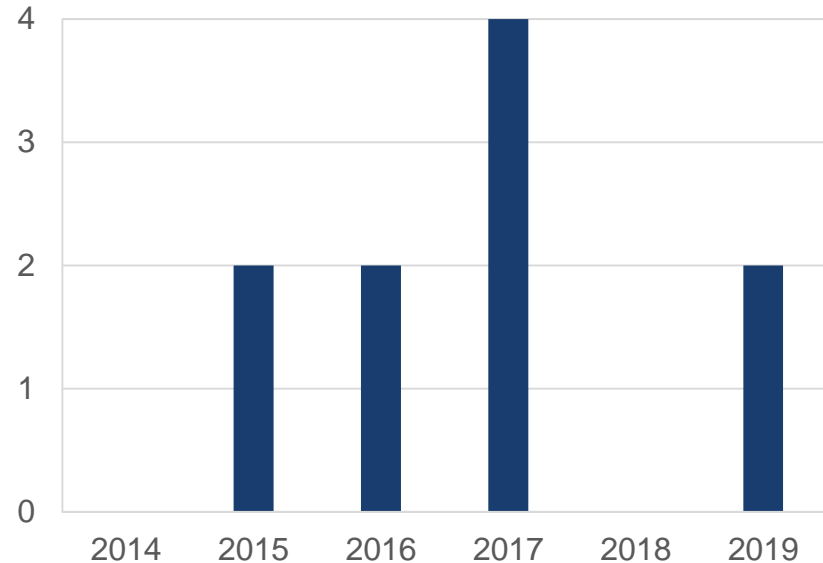
Hudson Road: 45 MPH

Crash Summary

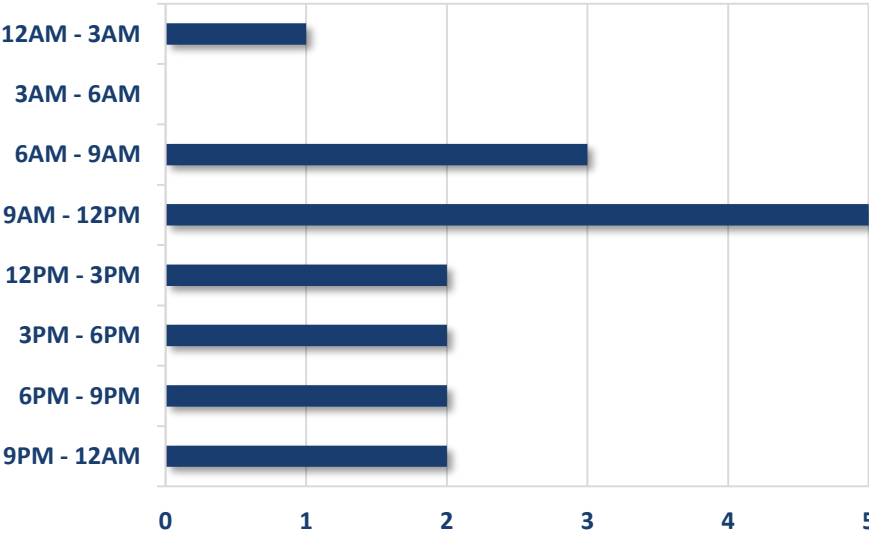
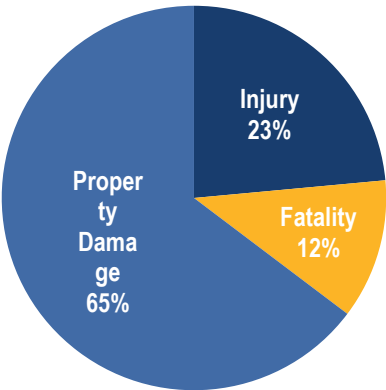
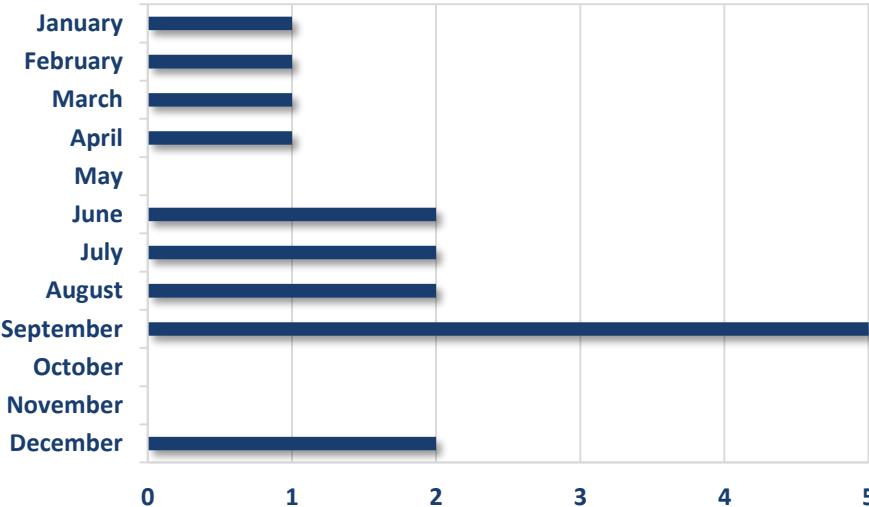
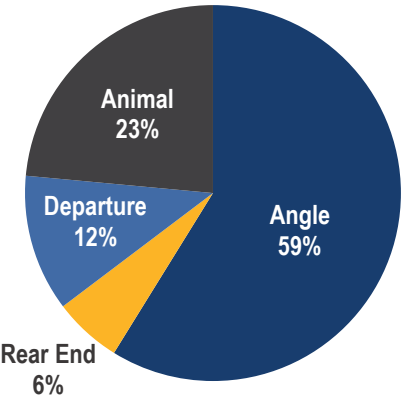
17 crashes (Jan 2014 – Nov 2019)

- 10 angle crashes
 - 4 EB/SB (1 fatality)
 - 2 EB/NB (1 fatality)
 - 2 WB/SB
 - 1 EB/NB right-turn
 - 1 WB left-turn
- 4 crashes involving deer
- 2 roadway departure crashes

Annual Angle Crashes



Crash Summary



Corner Sight Distance Evaluations

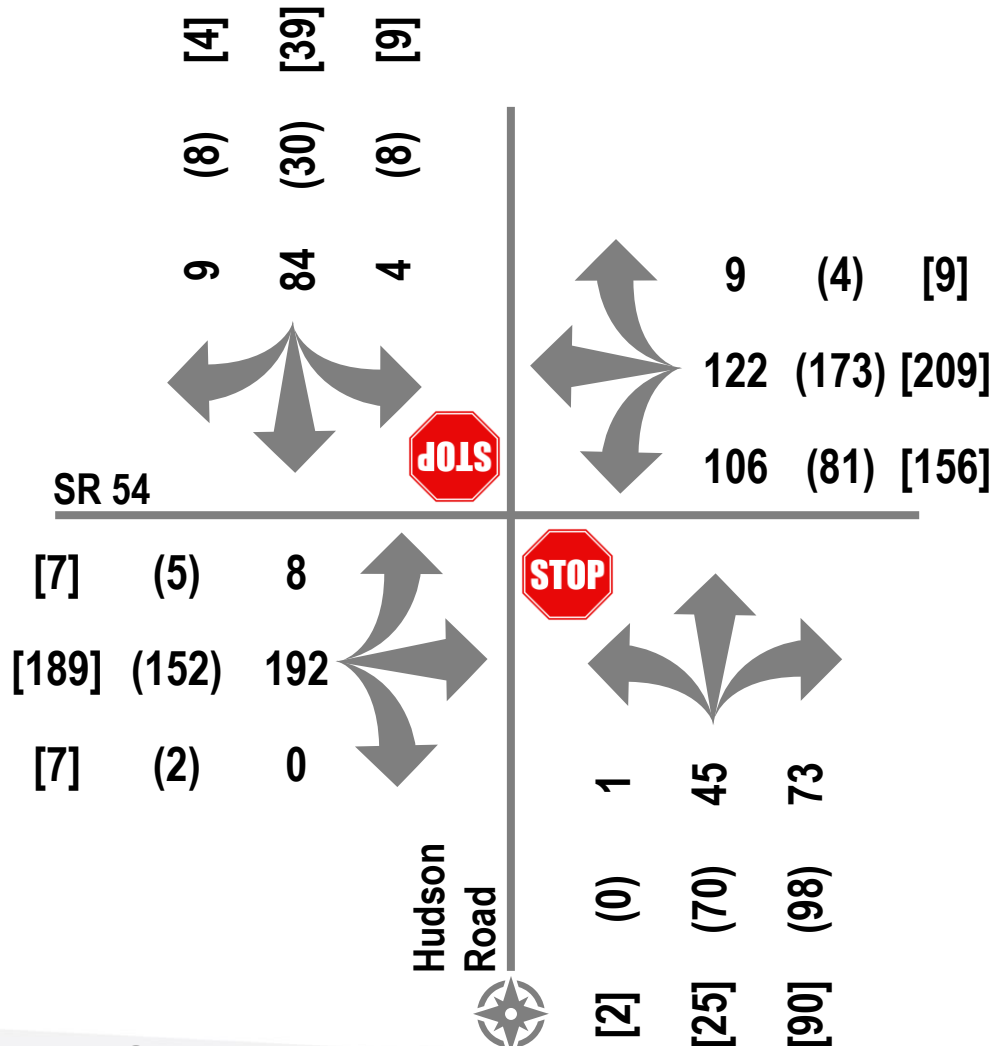
Looking Left (555 ft required)	Approach	From Stop Line	Criteria Met?	Beyond Stop Line	Criteria Met?
	NB Hudson	720 ft	Yes	>1000 ft	Yes
	SB Hudson	325 ft	No	>1000 ft	Yes
Looking Right (480 ft required)					
	NB Hudson	730 ft	Yes	>1000 ft	Yes
	SB Hudson	850 ft	Yes	>1000 ft	Yes



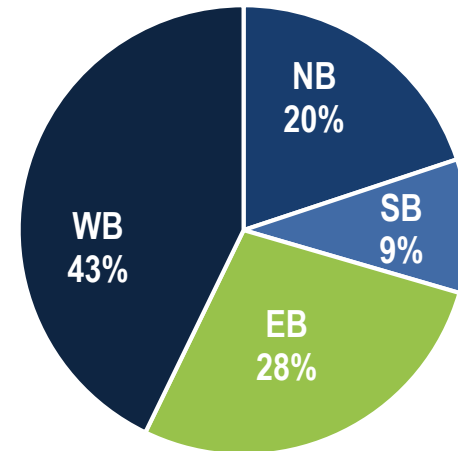
9-Sussex



Existing Volumes



Approach Proportion of Total Intersection Volume



Multi-Way Stop Control Warrants

Warrant	Met?
A) Interim measure when signal is justified	No
B) Five or more crashes in a 12-month period susceptible to correction by multi-way stop <i>(Maximum of four angle crashes reported in a 12-month period)</i>	No
C) Minimum volumes <i>(70% reduced criteria applied; based on existing volume)</i>	Yes
D) Reduced criteria – B, C.1, and C.2 satisfied to 80% of minimum volumes	No

HCM6 Roundabout Analysis

- Volumes include projected traffic for two future developments
- Sufficient capacity for local and summer traffic

AM Peak	Direction	Entry Volume	Entry Capacity	V/C Ratio		Percent Total Volume	
	NB	208	1050	0.20	Sufficient Capacity	44%	Balanced major-minor road flows, suitable location
	SB	226	1030	0.22		56%	
	EB	256	990	0.26			
	WB	298	1200	0.25			
PM Peak							
	NB	319	1050	0.30	Sufficient Capacity	46%	Balanced major-minor road flows, suitable location
	SB	196	960	0.20		54%	
	EB	232	1030	0.23			
	WB	362	1100	0.33			

Improvement Recommendations

The following recommendations were agreed upon during the Task I Meeting

Recommendation	Responsibility
Install AWSC	Plan preparation: WRA Implementation: DelDOT Traffic
Prepare a project nomination form proposing a roundabout	WRA
Construct roundabout	DelDOT Project Development